

WHAT IS CLAIMED IS:

1        1.    In a radio communication system in which data is  
2    communicated between a first communication station and a second  
3    communication station upon a communication channel, an improvement  
4    of apparatus for selectably permitting communication of data by the  
5    first communication station to the second communication station,  
6    said apparatus comprising:

7            a detector positioned at the first communication station,  
8    said detector for detecting closed-loop power control commands  
9    communicated to the first communication station by the second  
10   communication station;

11           a measurer coupled to said detector, said measurer for  
12   measuring indications of the power control commands during at least  
13   a selected time period; and

14           a decision maker coupled to said measurer to receive  
15   measured values measured by said measurer, said decision maker for  
16   comparing the measured values with a threshold value, and for  
17   selectably generating a data communication permission command  
18   responsive to comparisons made thereat.

2. The apparatus of claim 1 wherein the closed-loop power control commands to which said detector is positioned to detect are of first values to indicate to the first communication station that communication-signal power levels are to be increased and are of second values to indicate to the first communication station that communication-signal power levels are to be decreased.

3. The apparatus of claim 1 wherein the radio communication system is operable pursuant to a first communication service and at least a second communication service, the data communicated pursuant to effectuation of the second communication service and wherein the closed-loop power control commands to which said detector is coupled to receive are communicated pursuant to effectuation of the first communication service.

4. The apparatus of claim 3 wherein communications effectuated pursuant to the first communication service include communications effectuated by way of a dedicated air interface link and wherein communication of the data, permitted responsive to generation of the data communication-permission command by said decision maker, is effectuated pursuant to the second communication service.

5. The apparatus of claim 4 wherein the second communication service, pursuant to which the communication of the data is permitted responsive to generation of the data communication-permission command by said decision maker, comprises a data delivery service.

6. The apparatus of claim 5 wherein the data burst delivery service comprises a WAP (wireless application protocol)-based service and wherein the data burst, communication of which is selectably permitted responsive to comparisons made by said comparator, comprises a WAP-protocol data.

7. The apparatus of claim 5 wherein the data burst delivery service comprises an IP (internet-protocol)-formatted delivery service and wherein the data, communication of which is selectably permitted responsive to comparisons made by said decision maker, comprises an IP-formatted data burst.

8. The apparatus of claim 7 wherein the radio communication system comprises a cellular communication system which provides for SMS (short message service) messaging, and wherein the data burst, communication of which is selectably permitted responsive to comparisons made by said decision maker, comprises an SMS message.

9. The apparatus of claim 7 wherein the IP-formatted delivery service comprises a GUTS (Generalized UDP Transport Service)-formatted service and wherein the data burst, communication of which is selectably permitted responsive to comparisons made by said comparator, comprises a GUTS-formatted data burst.

10. The apparatus of claim 1 wherein the radio communication system comprises a cellular communication system operable pursuant to a CDMA (code-division, multiple-access) communication scheme, wherein the first communication station comprises a cellular-system base transceiver station and the second communication station comprises a cellular-system mobile station, and wherein the closed-loop power control commands to which said detector is coupled to receive are communicated by the mobile station to the base transceiver station.

11. The apparatus of claim 1 wherein said measurer comprises a summer for summing together values of the power control commands during the at least the selected time period.

1           12. The apparatus of claim 11 wherein a plurality of the  
2 power control commands are communicated to the first communication  
3 station during the selected time period.

1           13. The apparatus of claim 12 wherein the power control  
2 commands comprise binary values indicative, alternately, of power-  
3 up and power-down commands and wherein sums summed by said summer  
4 define average power control commands during the selected time  
5 period.

1           14. The apparatus of claim 13 wherein the threshold value  
2 with which the summed values formed by the summer of which said  
3 measurer is comprised is selected such that summed values which  
4 exceed the threshold value prevents generation of the data  
5 communication-permission command.

1           15. The apparatus of claim 14 wherein the data communication  
2 permission command is generated when the summed values are less  
3 than the threshold value.

1        16. In a method for communicating in a radio communication  
2 system in which data is communicated between a first communication  
3 station and a second communication station when a communication  
4 channel, an improvement of a method for selectably permitting  
5 communication of data by the first communication station to the  
6 second communication station, said method comprising:

7            detecting, at the first communication station, closed-  
8 loop power control commands communicated to the first communication  
9 station by the second communication station;

10           measuring indications of the power control commands  
11 detected during said operation of detecting during at least a  
12 selected time period;

13           comparing values of the indications of the power control  
14 commands measured during said operation of measuring with a  
15 threshold value; and

16           selectably generating a data communication permission  
17 command responsive to comparisons made during said operation of  
18 comparing.

1 17. The method of claim 16 wherein the radio communication  
2 system is operable pursuant to a first communication service and at  
3 least a second communication service, the data communicated  
4 pursuant to effectuation of the second communication service, and  
5 wherein the closed-loop power control commands detected during said  
6 operation of detecting are communicated to the first communication  
7 station pursuant to effectuation of the first communication  
8 service.

1 18. The method of claim 16 wherein communication of the burst  
2 data, selectably permitted responsive to generation of the  
3 communication permission command generated during said operation of  
4 selectably generating, is communicated pursuant to a data burst  
5 delivery service.

1 19. The method of claim 16 wherein said operation of  
2 measuring comprises summing together values of the indications of  
3 the power control commands during the selected time period.

1 20. The method of claim 16 wherein the data communication  
2 permission command is generated during said operation of selectably  
3 generating when the values of the indications of the power control  
4 commands are beneath the threshold value.